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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/790,864	03/03/2004	Toshiyuki Takizawa	2004_0347A	3118
513 7590 03/13/2009 WENDEROTH, LIND & PONACK, L.L.P.			EXAMINER	
1030 15th Street, N.W.,			QUINTO, KEVIN V	
Suite 400 East Washington, DC 20005-1503			ART UNIT	PAPER NUMBER
			2826	
			MAIL DATE	DELIVERY MODE
			03/13/2009	PAPER

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/790,864	TAKIZAWA, TOSHIYUKI		
Office Action Summary	Examiner	Art Unit		
	Kevin Quinto	2826		
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONI	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).		
Status				
1) Responsive to communication(s) filed on 24 F	s action is non-final. nce except for formal matters, pr			
Disposition of Claims				
4) ☐ Claim(s) 9-17,22,28 and 36 is/are pending in the same state of the above claim(s) is/are withdrays 5) ☐ Claim(s) 9-17,22 and 36 is/are allowed.  6) ☐ Claim(s) 28 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or same subject.	wn from consideration.			
Application Papers				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by the drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	ee 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail D 5) Notice of Informal 6) Other:	Date		

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#### **DETAILED ACTION**

## Response to Arguments

- 1. The indicated allowability of claim 28 is withdrawn in view of the newly discovered reference(s) to Tsuda et al. (United States Patent Application Publication No. US 2002/0053665 A1). Rejections based on the newly cited reference(s) follow.
- 2. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

### Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claim 28 is rejected under 35 U.S.C. 102(b) as being anticipated by Tsuda et al. (United States Patent Application Publication No. US 2002/0053665 A1).
- 5. In reference to claim 28, Tsuda et al. (United States Patent Application Publication No. US 2002/0053665 A1, hereinafter referred to as the "Tsuda" reference) discloses a structure which meets the claim. Tsuda discloses a p-type nitride semiconductor which has at least one Group III element including aluminum and at least one Group V element including nitrogen (p. 6-9, paragraphs 76-95). The p-type semiconductor comprises a plurality of elements with one of the elements being a localized band formation element (phosphorus, arsenic, antimony) which is isovalent

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with at least one of the other elements of the p-type semiconductor and has a smaller electronegativity than an electronegativity of the at least one element.

### Allowable Subject Matter

- 6. Claims 9-17, 22, and 36 are allowed.
- 7. The following is a statement of reasons for the indication of allowable subject matter: the reasons for the allowance of claims 9-17, 22, and 36 were cited in a previous Office action.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Quinto whose telephone number is (571) 272-1920. The examiner can normally be reached on M-F 8AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sue Purvis can be reached on (571) 272-1236. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kevin Quinto/ Examiner, Art Unit 2826

/Evan Pert/ Primary Examiner, Art Unit 2826